

SERIAL NUMBER	FILING DATE	CHAKK TERIT	INVENTOR	ON TEXACOR VENNOTTA
07/431,429	11/03/89	COMAI	L.	CGNE621
			RHODES, P	REMINAX
ELIZABETH L CALGENE, IN			ART UNIT	PAPER NUMBER
1920 FIFTH STREET DAVIS, CA 95616		184	4	
	·		DATE MAILED:	05/21/91
This is a communication form COMMISSIONER OF PATEN		your application		

COMMISSIONER OF PATENTS AND TRADEMARKS	
This application has been examined Responsive to communication filed on	
This application has been examined Responsive to communication filed on	This action is made final.
TOTO 55 (3)	om the date of this letter.
Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:	
1. Notice of References Cited by Examiner, PTO-892.	. PTO-948.
1. Notice of References Cited by Examiner, PTO-892. 2. Notice re Patent Drawing 3. Notice of Art Cited by Applicant, PTO-1449, 2062 4. Notice of Informal Petent 5. Information on How to Effect Drawing Changes, PTO-1474.	Application, Form PTO-152
Pert II SUMMARY OF ACTION	
1. Claims 1-19	are pending in the application
Of the above, claims	
2. Chaims	
3. Claims	
1 10	are ellowed.
4. Claims	are rejected.
5. Ctaims	
6. Claims are subject to restric	ction or election requirement.
7. This epplication has been filed with informal drawings under 37 C.F.R. 1.85 which are ecceptable for example 1.85 which are e	aminetion purposes.
8. Formal drawings are required in response to this Office action.	
9. The corrected or substitute drawings have been received on Uncleare acceptable; not ecceptable (see explanation or Notice re Petent Drawing, PTO-948).	der 37 C.F.R. 1.84 these drawings
10. The proposed additional or substitute sheet(s) of drawings, filed on has (have) been examiner; disapproved by the examiner (see explanation).	approved by the
11. The proposed drawing correction, filed has been _ approved; _ disapprove	ed (see explanation).
12. Acknowledgement is mede of the claim for priority under U.S.C. 119. The certified copy has been re been filed in parent application, serial no; filed on	
13. Since this application apppears to be in condition for allowance except for formal matters, prosecution as accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.	to the merits is closed in
14. Other	

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The specification and claims should be reviewed for spelling, grammatic, and typographic error.

35 U.S.C. § 101 reads as follows:
"Whoever invents or discovers any new and useful process,
machine, manufacture, or composition of matter or any new
and useful improvement thereof, may obtain a patent
therefore, subject to the conditions and requirements of
this title".

Claims 1-11 and 16-19 are rejected under 35 U.S.C. § 101 because the claimed invention is directed to non-statutory subject matter.

Naturally occurring FMV and infected plants comprise the recited elements of the promoter and terminator in these claims. "Fragment comprising" is open language and the construct is not recombinant. The invention as claimed, therefore, does not constitute patentable subject matter. See American Wood v Fiber Disintegrating Co., 90 U.S. 566 (1974): American Fruit Growers v. Brogdex Co., 283 U.S. 1 (1931); Funk Brothers Seed Co. v. Kalo Innoculant Co., 33 U.S. 127 (1948); Diamond v. Chakrabarty, 206 USPQ 193 (1980).

Claims 2-4, 8-10, and 13-15 are rejected under 35 U.S.C. \$ 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The position of the TATTTAA site is not indicated in claims 2-4 and 8-10. The elements recited in claims 13-15 are not oriented with respect to the elements in claim 5. Claim 14 appears to have added a second CaMV 35S promoter to that of claim 13.

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Claim 7 is rejected under 35 U.S.C. § 112, first and second paragraphs, as the claimed invention is not described in such full, clear, concise and exact terms as to enable any person skilled in the art to make and use the same, and/or for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The identity or position of the functional 34S termination region of claim 7 is not specified and the specification sheds no light on this issue.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -
(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the

Claims 1-11 and 16 are rejected under 35 U.S.C. § 102(a) as being clearly anticipated by Gowda et al.

date of application for patent in the United States.

Claims 1-11 and 16 are rejected under 35 U.S.C. § 102(a) as being clearly anticipated by Wu et al.

Claims 1-11 and 16-17 are rejected under 35 U.S.C. § 102(a) as being clearly anticipated by Goldberg et al.

Claims 1-11 and 16-19 are rejected under 35 U.S.C. § 102(b) as being clearly anticipated by Shepherd et al.

Claims 1-11 are rejected under 35 U.S.C. § 102(b) as being clearly anticipated by Richins et al.

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The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

Claims 1-19 are rejected under 35 U.S.C. § 103 as being unpatentable over Shah et al and Sanders et al taken with either Richins et al or Gowda et al or Wu et al or Goldberg et al.

The primary references disclosed all features of the present invention except for specifying FMV 34S gene as a source for a strong promoter. The secondary references disclosed the FMV 34S promoter which was analogous in structure and strong expression characteristics with the well-known CaMV 35S promoter long used

in recombinant constructs in transgenic plants. At the time this invention was made, it was obvious to one of ordinary skill in the art to modify the primary references with the teachings of the secondary references with a reasonable expectation of success as taught by Wu et al for example. Thus the invention as claimed was very clearly prima facie obvious as a whole over the prior art in the absence of clear and convincing evidence to the contrary.

No claim was allowed.

Any inquiry concerning this communication should be directed to P. Rhodes at telephone number (703) 308-0196.

Elizabeth Culeiman Elizabeth C. WEIMAR SUPERVISORY PATENT EXAMINER ART UNIT 184

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P. Rhodes April 23, 1991